

# PATENT ABSTRACTS OF JAPAN

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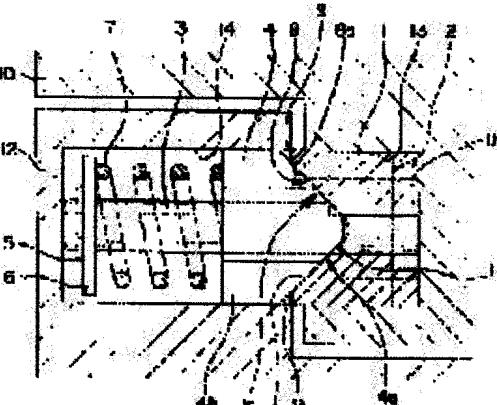
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## (54) HINGE DEVICE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a hinge device of simple and compact structure capable of stopping an opening closing member at an opening position, a closing position, and an arbitrary position therebetween relative to a body member and improving operability of a portable apparatus using the device.

**SOLUTION:** A hinge device comprises a coupling shaft 3; a cam 1 on the fixed side fixed at a first member 10; a cam 4 on the moving side mounted on a second member 12 in a state to lock relative rotation by a rotation lock means 4b; and an energizing means 7 to hold the cam surfaces 1a and 4a of the cams 1 and 4 on the fixed side and the moving side in a pressure contact state. In this case, a recessed part 8 to engage with a protrusion parts 11 formed on the other cam surface 4a to position the two members 10 and 12 and a friction part 9 to generate a given friction force between the recessed part 8 and the tip of the protrusion part 11, situated between the recessed parts 8, are arranged on either cam surface 1a the cam 1 on the fixed side or the cam 4 on the moving side and in a plurality positioned in a peripheral direction and a plurality of positions where the two members 10 and 12 are arranged in a given phase relation.



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